

Work Order ID 73819

Friday, September 16, 2011 10:38:59 AM



~~PRELIMINARY ISSUE~~

ECN 11-640

Page 1

Item ID: D3805-045

Accept



Setup Start



Revision ID:

Item Name: Wearplate Assembly Aft, Low Gear

Stop



Start Date: 9/16/2011 Start Qty: 8.00



Cust Item ID:

Required Date: 10/7/2011 Req'd Qty: 8.00

Customer:

Reference:

Approvals:

Process Plan: W

Date:

Tooling:

Date:

Run Start



QC:

Date:

SPC (Y/N):

Date:

Stop



Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
--------------------------------	--------------------------	----------------------	---------	--------	--------------	---------------	---------------	------------------	----------------

Draw Nbr

Revision Nbr

D3805

11.11.09
ECN 11-640

0.00

100



Large Fab

Memo

0.00

Large Fab

1- on D3806-5, fill cut outs with hardcoat welding rod as per dwg D3805

2059 B Hardcoat Welding Rod

BATCH#: M119061

2-weld D3806-5 to wearplate by positioning holes together as per dwg D3805

304 S.S. Welding Rod

BATCH#: M117659

3-Transfer drill holes in bar

110

QC9- Inspect visual per QSI004- Fusion Welds

0.00



QC

Memo

0.00

Quality Control

11.11.03

X8

11/10/26

X8 11-11-03 JRL

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

Work Order ID 73819

Friday, September 16, 2011 10:38:59 AM



Page 2

Item ID:	D3805-045	Accept		Setup	Start	
Revision ID:					Stop	
Item Name:	Wearplate Assembly Aft, Low Gear					
Start Date:	9/16/2011	Start Qty:	8.00		Cust Item ID:	
Required Date:	10/7/2011	Req'd Qty:	8.00		Customer:	
Reference:						

Approvals:	Process Plan:	Date:	Tooling:	Date:	Run	Start	
	QC:	Date:	SPC (Y/N):	Date:		Stop	

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
120	QC5- Inspect part completeness to step on W/O	0.00							
QC	Memo	0.00							
Quality Control									
130	Grey Sandtex(Ref:4.3.5.6) per QSI005 4.3	0.00							
Powdercoat									
Powder Coating									
	Memo	0.00							
	START TIME: 11:30								
	OVEN TEMPERATURE: 320 °F								
	FINISH TIME: 12:00								
140	QC3- Inspect Part Finish	0.00							
QC	Memo	0.00							
Quality Control									

Wl 11-11-03 (8)

8X/D M-F 11/11/08

8 BK 11-11-8

M118489

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

Work Order ID 73819

Friday, September 16, 2011 10:38:59 AM

Page 3

Item ID: D3805-045

Accept

Setup Start

Revision ID:

Stop

Item Name: Wearplate Assembly Aft, Low Gear

Start Date: 9/16/2011 Start Qty: 8.00

Cust Item ID:

Required Date: 10/7/2011 Req'd Qty: 8.00

Customer:

Reference:

Approvals:

Process Plan:

Date:

Tooling:

Date:

Run Start

QC:

Date:

SPC (Y/N):

Date:

Stop

Sequence ID/
Work Center IDOperation
DescriptionSet Up/
Run Hours

Tool ID

Tool #

Plan
CodeAccept
QtyReject
QtyReject
NumberInsp.
Stamp

150

0.00



Small Fab

Memo

0.00

Small Fab

1- Bond D3807-5 gasket to inner surface of wearplate using a thin layer of 3m
1300/1300L scotch grip adhesive as per dwg
BATCH: 4119343

[Signature] 9/16/09 (8)

160

0.00



QC

QC5- Inspect part completeness to step on W/O

Memo

0.00

Quality Control

[Signature] 9/16/09

(X2)

170

0.00



Packaging

Identify as per dwg & Stock Location: EP-1

Memo

0.00

Packaging

84 of 84
COUNTED &
MEASURED.

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

Work Order ID 73819

Friday, September 16, 2011 10:38:59 AM

Page 4

Item ID: D3805-045

Accept

Setup Start

Revision ID:

Stop

Item Name: Wearplate Assembly Aft, Low Gear

Start Date: 9/16/2011 Start Qty: 8.00

Cust Item ID:

Required Date: 10/7/2011 Req'd Qty: 8.00

Customer:

Reference:

Approvals:

Process Plan:

Date:

Tooling:

Date:

Run Start

QC:

Date:

SPC (Y/N):

Date:

Stop

Sequence ID/
Work Center IDOperation
DescriptionSet Up/
Run Hours

Tool ID

Tool #

Plan
CodeAccept
QtyReject
QtyReject
NumberInsp.
Stamp

180

QC21- Final Inspection - Work Order Release

0.00

QC

Memo

0.00

Quality Control

POSITIVE RECALL
EFFECTIVE 11/11/09 AUTH [Signature]
RELEASED 11/11/09 DATE 11-11-09

ECN 11-640
11.11.09

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

Picklist Print

Friday, September 16, 2011 10:38:55 AM

Page 1

Work Order ID: 73819

Parent Item: D3805-045

Parent Item Name: Wearplate Assembly Aft, Low Gear








Start Date: 9/16/2011

Required Date: 10/7/2011

Start Qty: 8.00

Required Qty: 8.00

Comments: IPP Rev:A 08-12-01 new issue EC verified by:DD IPP Rev:B 09-03-04 rev.a as per dwg DD verified by:EC

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
D3805-5  Plate		Manufactured	No			100	Each	0.0000	1	8			
		74900 X8										11-11-02	
D3806-5  Bar		Manufactured	No			100	Each	2.0000	1	8			
												11-10-26	
<div> <div> <div>74455 X4</div> <div>94055 X4</div> <div>WA030</div> <div>46781</div> </div> <div> <div>Loc Qty</div> <div>2</div> <div>2</div> </div> <div> <div>Loc Code</div> <div></div> <div></div> </div> </div>													
D3807-5  Gasket		Manufactured	No			150	Each	0.0000	1	8			
												8/24/11/09	
									74944				

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

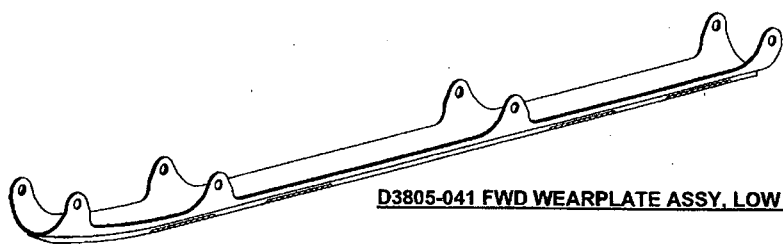
Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

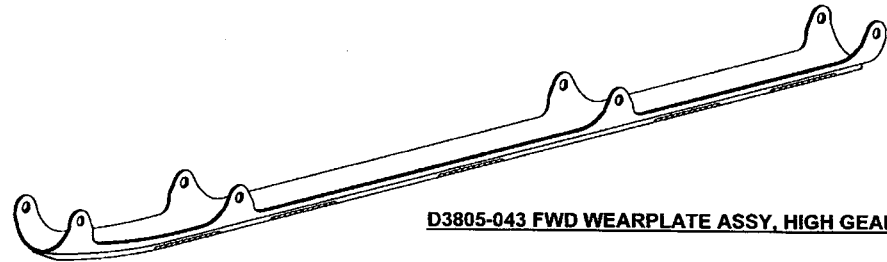
NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

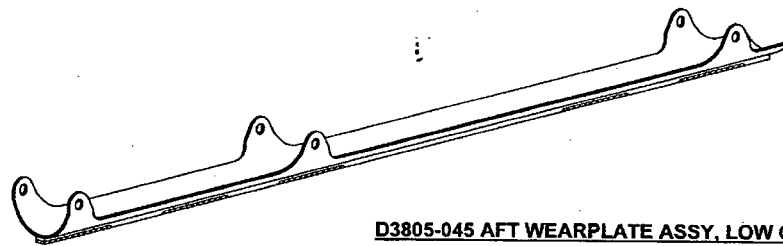
8 7 6 5 4 3 2 1



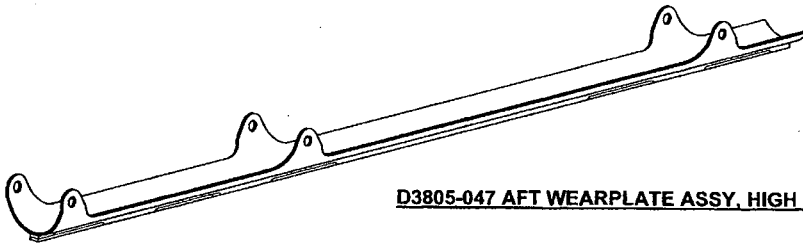
D3805-041 FWD WEARPLATE ASSY, LOW GEAR



D3805-043 FWD WEARPLATE ASSY, HIGH GEAR



D3805-045 AFT WEARPLATE ASSY, LOW GEAR



D3805-047 AFT WEARPLATE ASSY, HIGH GEAR

8 7 6 5 4 3 2 1

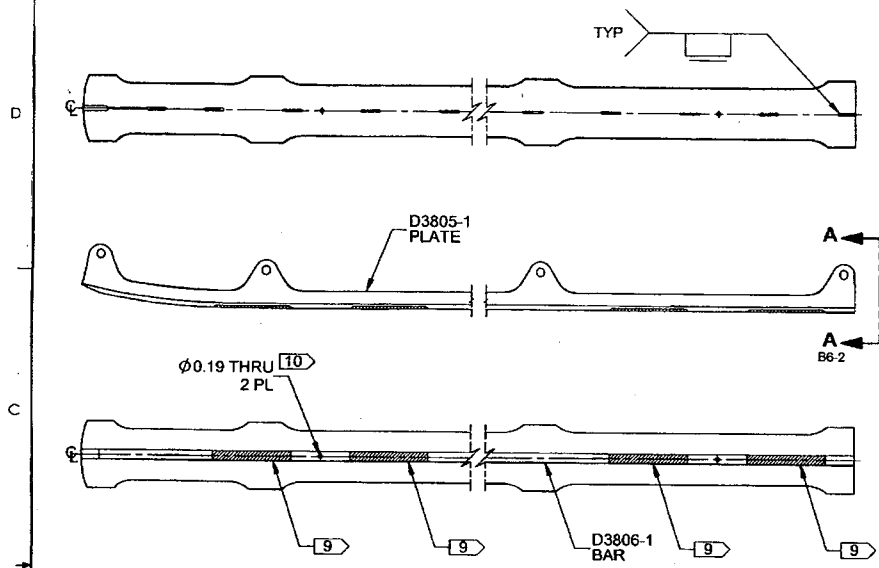
ITEM	QTY -041	QTY -043	QTY -045	QTY -047	P/N	DESCRIPTION
1	X				D3805-041	FWD WEARPLATE ASSY, LOW GEAR
2		X			D3805-043	FWD WEARPLATE ASSY, HIGH GEAR
3			X		D3805-045	AFT WEARPLATE ASSY, LOW GEAR
4				X	D3805-047	AFT WEARPLATE ASSY, HIGH GEAR
11	1				D3805-1	PLATE
12		1			D3805-3	PLATE
13			1		D3805-5	PLATE
14				1	D3805-7	PLATE
15	1				D3806-1	BAR
16		1			D3806-3	BAR
17			1		D3806-5	BAR
18				1	D3806-7	BAR
19	1				D3807-1	GASKET
20		1			D3807-3	GASKET
21			1		D3807-5	GASKET
22				1	D3807-7	GASKET
31	A/R	A/R	A/R	A/R	2059B	HARDCOAT
32	A/R	A/R	A/R	A/R	1300 (OR 1300L)	3M SCOTCH-GRIP ADHESIVE

73819 RELEASED
2011-10-03

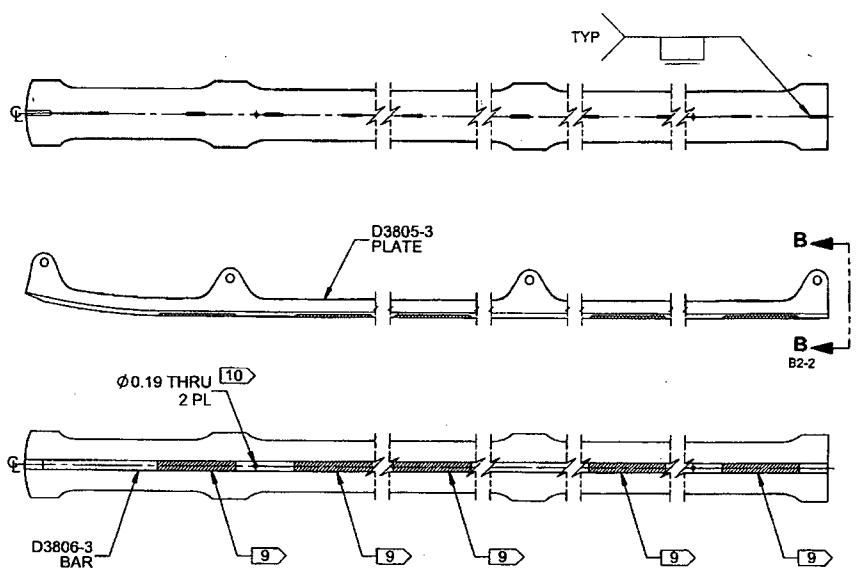
B	REVISED D3805-1F1-3F TO EASE MANUFACTURABILITY (ADDED CUTOUT AT FWD END OF PLATE PER PAR11-108) AND RE-ORGANIZED NOTES SHEETS 2 & 3		MB	11.09.16
A	NEW ISSUE		MB	08.11.21
REV.	DESCRIPTION		BY	DATE
DESIGN	DRAWN		DART AEROSPACE USA, INC. KENT, WA	
CHECKED	MFG. APPR.		DRAWING NO.	REV. B
APPROVED	DE APPR.		D3805	SHEET 1 OF 8
DATE	11.09.16		TITLE	SCALE
			WEARPLATE ASSY	NTS

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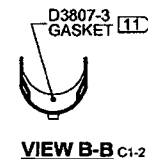
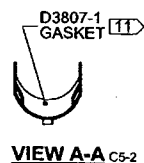
8 7 6 5 4 3 2 1



D3805-041 FWD WEARPLATE ASSY, LOW GEAR



D3805-043 FWD WEARPLATE ASSY, HIGH GEAR



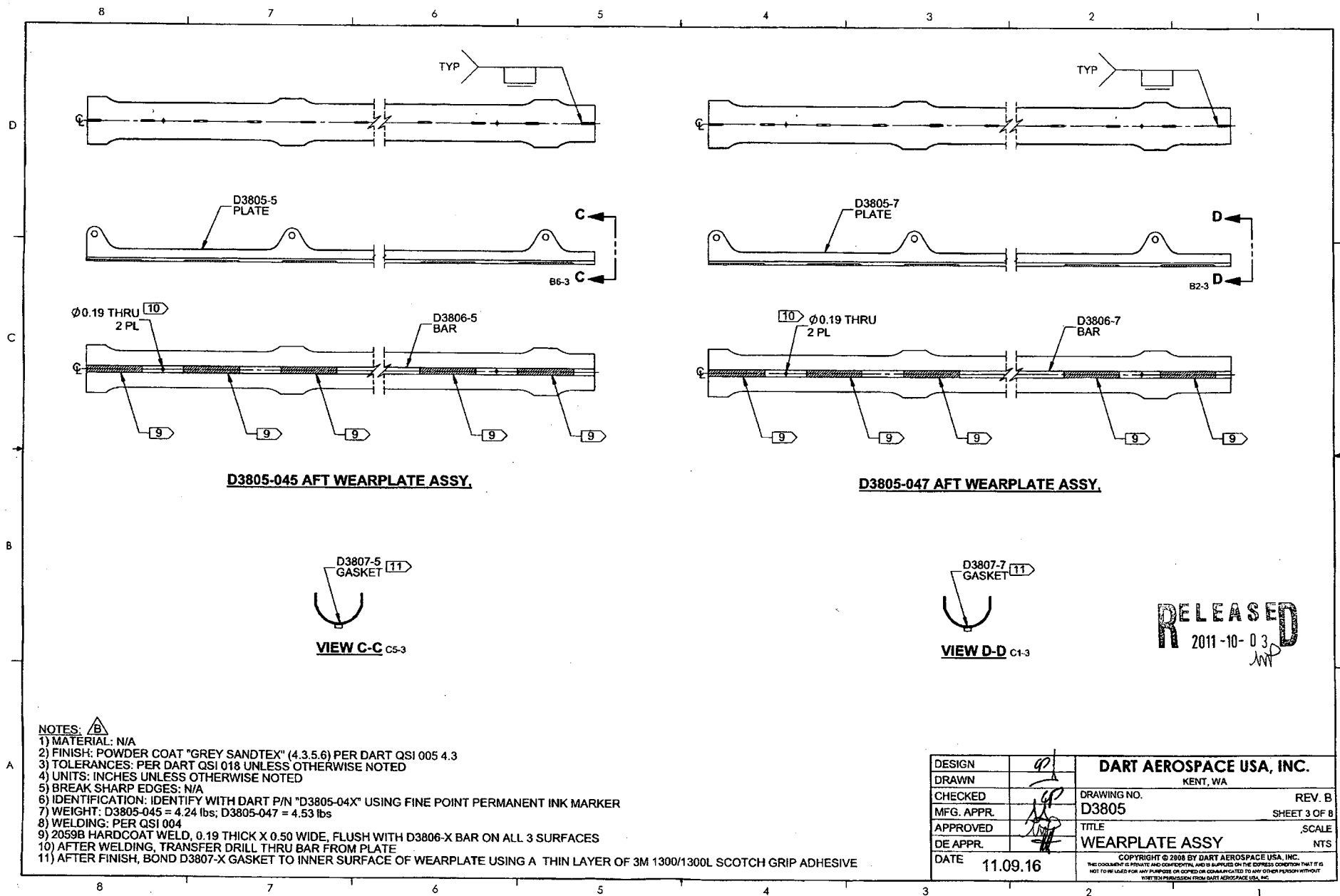
RELEASED
2011-10-03

NOTES:

- 1) MATERIAL: N/A
- 2) FINISH: POWDER COAT "GREY SANDTEX" (4.3.5.6) PER DART QSI 005 4.3
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: N/A
- 6) IDENTIFICATION: IDENTIFY WITH DART P/N "D3805-04X" USING FINE POINT PERMANENT INK MARKER
- 7) WEIGHT: D3805-041 = 4.18 lbs; D3805-043 = 4.78 lbs
- 8) WELDING: PER QSI 004
- 9) 2059B HARDCOAT WELD, 0.19 THICK X 0.50 WIDE, FLUSH WITH D3806-X BAR ON ALL 3 SURFACES
- 10) AFTER WELDING, TRANSFER DRILL THRU BAR FROM PLATE
- 11) AFTER FINISH, BOND D3807-X GASKET TO INNER SURFACE OF WEARPLATE USING A THIN LAYER OF 3M 1300/1300L SCOTCH GRIP ADHESIVE

DESIGN		DART AEROSPACE USA, INC.	
DRAWN		KENT, WA	
CHECKED		DRAWING NO.	REV. B
MFG. APPR.		D3805	SHEET 2 OF 8
APPROVED		TITLE	SCALE
DE APPR.		WEARPLATE ASSY	NTS
DATE	11.09.16	<small>COPYRIGHT © 2008 BY DART AEROSPACE USA, INC. THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE USA, INC.</small>	

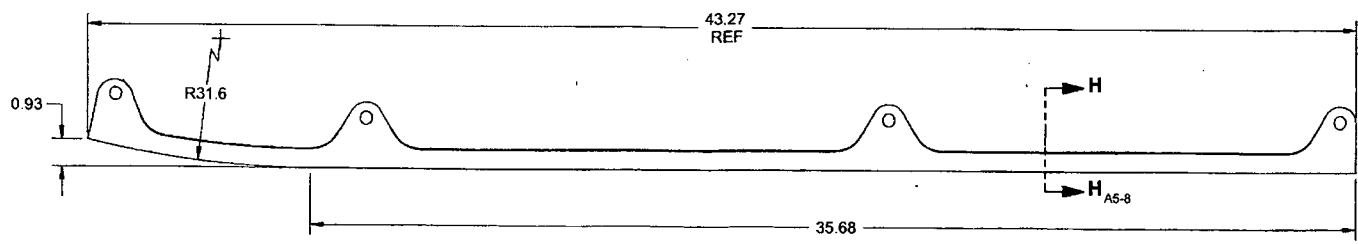
8 7 6 5 4 3 2 1



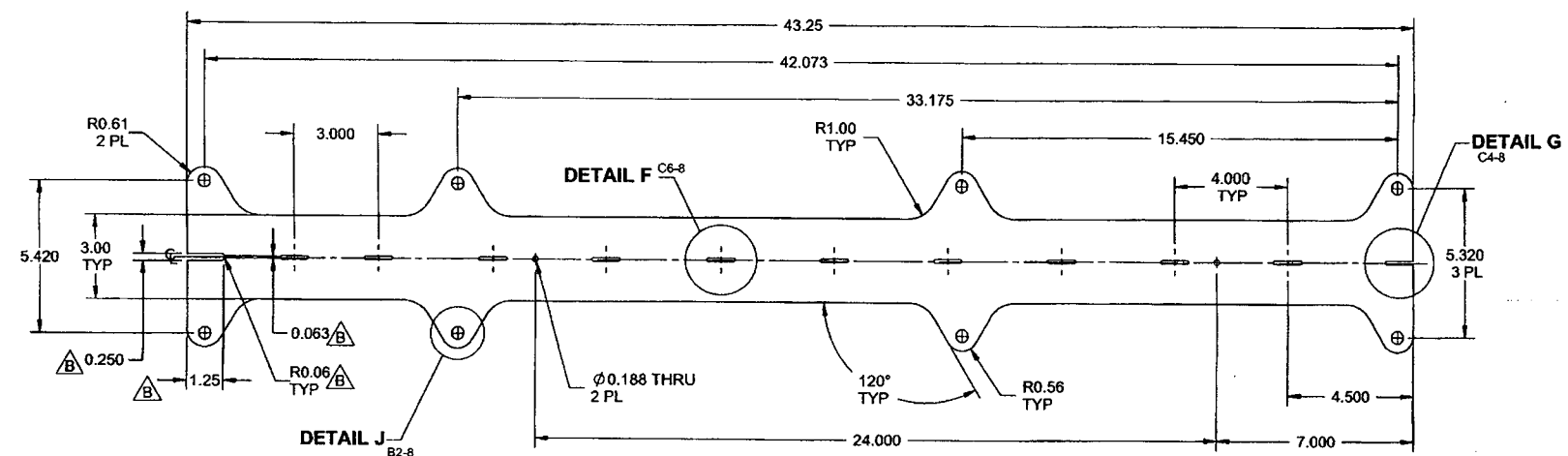
- NOTES:**
- 1) MATERIAL: N/A
 - 2) FINISH: POWDER COAT "GREY SANTEX" (4.3.5.6) PER DART QSI 005 4.3
 - 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
 - 4) UNITS: INCHES UNLESS OTHERWISE NOTED
 - 5) BREAK SHARP EDGES: N/A
 - 6) IDENTIFICATION: IDENTIFY WITH DART P/N "D3805-04X" USING FINE POINT PERMANENT INK MARKER
 - 7) WEIGHT: D3805-045 = 4.24 lbs; D3805-047 = 4.53 lbs
 - 8) WELDING: PER QSI 004
 - 9) 2059B HARDCOAT WELD, 0.19 THICK X 0.50 WIDE, FLUSH WITH D3806-X BAR ON ALL 3 SURFACES
 - 10) AFTER WELDING, TRANSFER DRILL THRU BAR FROM PLATE
 - 11) AFTER FINISH, BOND D3807-X GASKET TO INNER SURFACE OF WEARPLATE USING A THIN LAYER OF 3M 1300/1300L SCOTCH GRIP ADHESIVE

DESIGN		DART AEROSPACE USA, INC.	
DRAWN	92	KENT, WA	
CHECKED	92	DRAWING NO.	REV. B
MFG. APPR.	92	D3805	SHEET 3 OF 8
APPROVED	92	TITLE	SCALE
DE APPR.	92	WEARPLATE ASSY	NTS
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RELEASED
2011-10-03



D3805-1 PLATE
(MAKE FROM D3805-1F)

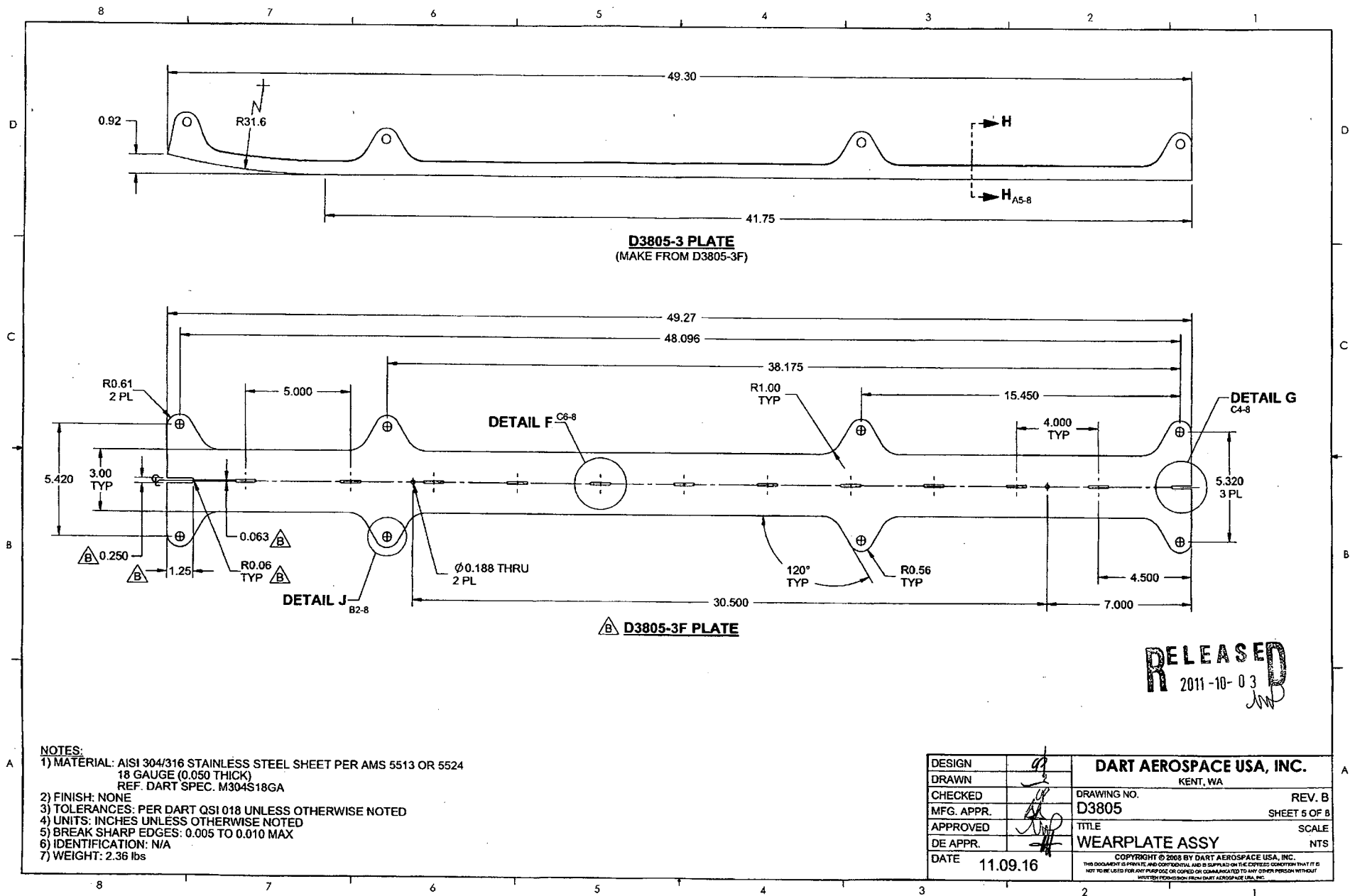


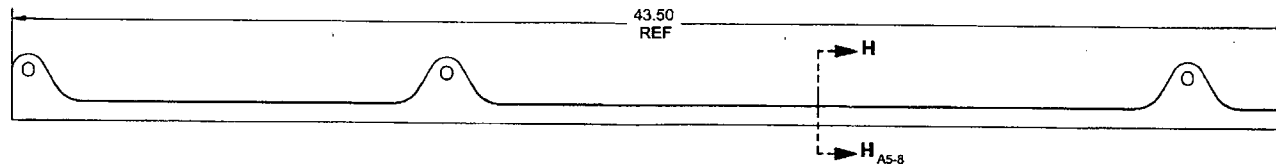
D3805-1F PLATE

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2011-10-03

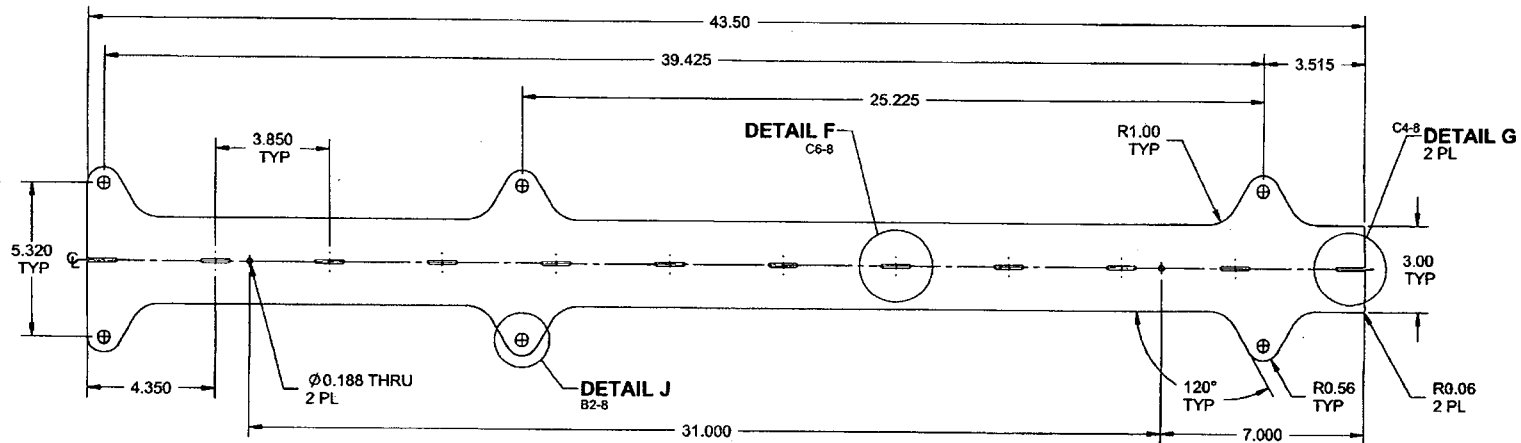
- NOTES:**
- 1) MATERIAL: AISI 304/316 STAINLESS STEEL SHEET PER AMS 5513 OR 5524
18 GAUGE (0.050 THICK)
REF. DART SPEC. M304S18GA
 - 2) FINISH: NONE
 - 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
 - 4) UNITS: INCHES UNLESS OTHERWISE NOTED
 - 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
 - 6) IDENTIFICATION: N/A
 - 7) WEIGHT: 2.11 lbs

DESIGN		DART AEROSPACE USA, INC.	
DRAWN		KENT, WA	
CHECKED		DRAWING NO. D3805	REV. B
MFG. APPR.		SHEET 4 OF 8	
APPROVED		TITLE WEARPLATE ASSY	SCALE
DE APPR.		NTS	
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D3805-5 PLATE
(MAKE FROM D3805-5F)



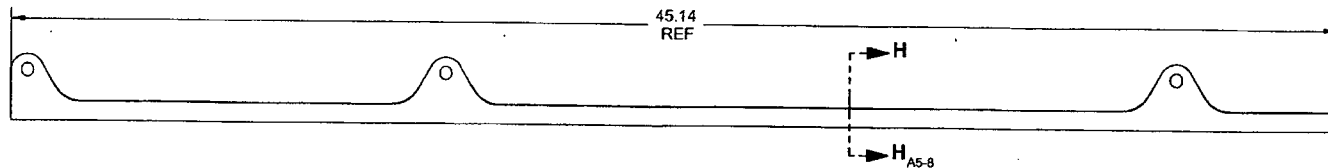
D3805-5F PLATE

RELEASED
2011-10-03

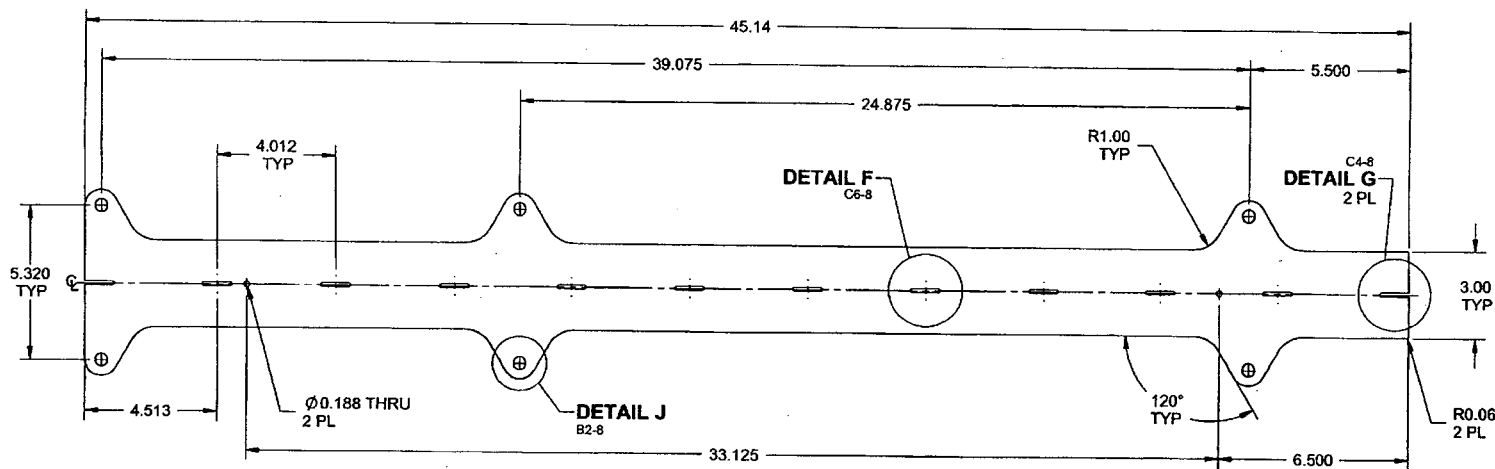
NOTES:

- 1) MATERIAL: AISI 304/316 STAINLESS STEEL SHEET PER AMS 5513 OR 5524
18 GAUGE (0.050 THICK)
REF. DART SPEC. M304S18GA
- 2) FINISH: NONE
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: N/A
- 7) WEIGHT: 2.06 lbs

DESIGN		DART AEROSPACE USA, INC.	
DRAWN		KENT, WA	
CHECKED		DRAWING NO.	REV. B
MFG. APPR.		D3805	SHEET 6 OF 8
APPROVED		TITLE	SCALE
DE APPR.		WEARPLATE ASSY	NTS
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D3805-7 PLATE
(MAKE FROM D3805-7F)



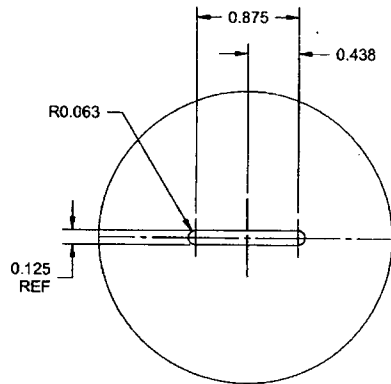
D3805-7F PLATE

RELEASED
2011-10-03
ND

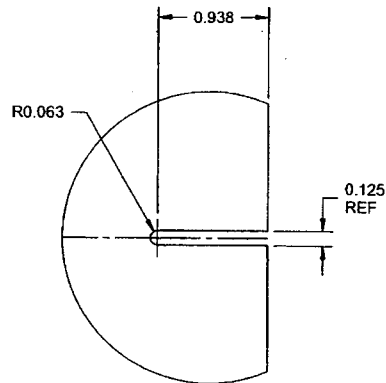
NOTES:

- 1) MATERIAL: AISI 304/316 STAINLESS STEEL SHEET PER AMS 5513 OR 5524
18 GAUGE (0.050 THICK)
REF. DART SPEC. M304S18GA
- 2) FINISH: NONE
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: N/A
- 7) WEIGHT: 2.13 lbs

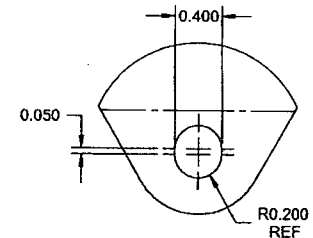
DESIGN		DART AEROSPACE USA, INC.	
DRAWN		KENT, WA	
CHECKED		DRAWING NO.	REV. B
MFG. APPR.		D3805	SHEET 7 OF 8
APPROVED		TITLE	SCALE
DE APPR.		WEARPLATE ASSY	NTS
DATE	11.09.16	COPYRIGHT © 2008 BY DART AEROSPACE USA, INC. THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR DISSEMINATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE USA, INC.	



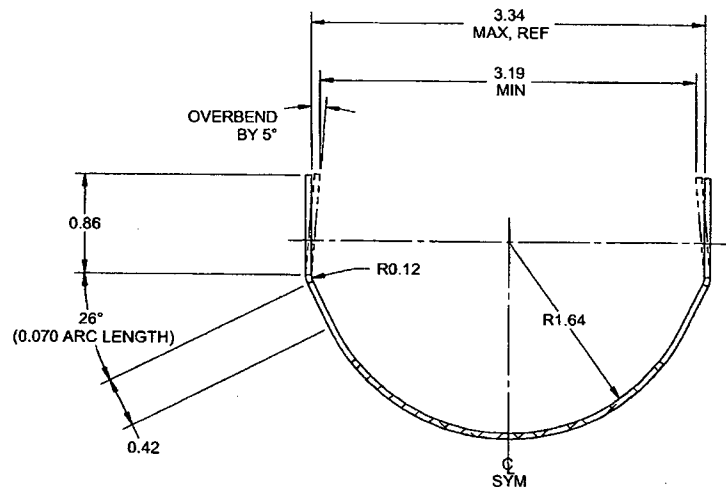
DETAIL F
SLOT DETAIL TYP
SCALE 4X
C5-4
C5-5
C4-6
C4-7



DETAIL G
SLOT DETAIL TYP
SCALE 4X
C1-4
C1-5
C1-6
C2-7



DETAIL J
SCALE 4X
B6-4
B7-5
B5-6
B5-7



SECTION H-H
SCALE 4X
D3-4
D3-5
D3-6
D3-7

RELEASED
2011-10-03

DESIGN	<i>[Signature]</i>	DART AEROSPACE USA, INC.	
DRAWN	<i>[Signature]</i>	KENT, WA	
CHECKED	<i>[Signature]</i>	DRAWING NO. D3805	REV. B
MFG. APPR.	<i>[Signature]</i>	SHEET 8 OF 8	
APPROVED	<i>[Signature]</i>	TITLE	SCALE
DE APPR.	<i>[Signature]</i>	WEARPLATE ASSY	NTS
DATE	11.09.16	<small>COPYRIGHT © 2008 BY DART AEROSPACE USA, INC. THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMBINED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE USA, INC.</small>	